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FY 2005 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET
Exhibit R-2

DATE: February 2004

BA: 03 PROGRAM ELEMENT: 0603757N
PROGRAM ELEMENT TITLE: Joint Warfare Experiments

COST: (Dollars in Thousands)

Project & Title	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
R3010 JFCOM- Joint Simulation System	0	9,573	26	21	17	21	21
R9340 NATIONAL SECURITY MODELING, SIMULATION & TRAINING	0	10,383	0	0	0	0	0
Totals	0	19,956	*26	21	17	21	21

* Work and funding will be transferred to BA 4 PE in FY05-09.

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Secretary of Defense Program Decision Memorandum (dated 12 Dec 2003) tasked U.S. Joint Forces Command (USJFCOM) with the responsibility for maintaining Joint Simulations System (JSIMS) software and establishing a Software Support Facility (SSF) at the Joint Warfighting Center, pending the results of an Analysis of Alternatives (AoA). The mission of this program is to create a SSF to support the delivery and maintenance of Block I of the JSIMS. JSIMS Block I delivers to the Joint Warfighting Center the simulation capability to train Joint Force Commanders, their components, and staffs. JSIMS is the next generation modeling and simulation tool that will be the cornerstone for Training Transformation and will be one of the key tools to the success of the Joint National Training Center (JNTC).

The USJFCOM SSF efforts through FY 2009 will focus on supporting and maintaining JSIMS Block I software support for Joint Training. Specific JSIMS SSF tasks include: software configuration management; joint exercise technical support; JSIMS specific training; resource repository maintenance; and software administrative support. When Block I is formally delivered, Joint Warfighting Center (JWFC) will be responsible for the "upkeep" of the software and hardware. This is a departure from standard software acquisition processes as the Program Office is responsible for out-year Post Development Software Support (PDSS) and other logistic support.

National Security Modeling and Simulation (NSM&S)- this project is being performed in response to a congressional allocation of funds with a mandated task in the FY04 Defense Supplemental. This specified that United States Joint Forces Command (USJFCOM) & Joint Warfighting Center (JWFC) would partner with USNORTHCOM

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and the Old Dominion University (ODU) Research Facility, Virginia Modeling, Analysis & Simulation Center (VMASC), to develop and demonstrate models of U.S. urban areas, simulations on the employment of weapons of mass destruction in these urban areas, simulations on the capabilities of the Department's civil support capabilities, interactive capacity for live responses for local, state and national civil authorities and the means to ultimately become part of a larger full-spectrum national security modeling and simulation architecture. The desired outcome is a demonstrated, portable, simulation-driven training capability to support Homeland Defense and Security events which focuses on middle and upper tier federal, state, regional and local emergency management and disaster response control centers, replicates the full interagency and intergovernmental environment, and models scenarios reflective of the major urban contingencies these organizations must face.

Due to the number of efforts in this PE, the programs described herein are representative of the work included in this PE.

PROGRAM CHANGE SUMMARY:

	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
FY 2004-2005 President's Budget Submission	0	13,684	14,292
Cong. Rescissions/Adjustments/Undist.Reductions	0	-225	0
Congressional Actions	0	6,500	0
JFCOM PE Realignment	0	0	-14,266
Rate Adjustments	0	-3	0
FY 2005 President's Budget Submission	0	19,956	26

PROGRAM CHANGE SUMMARY EXPLANATION:

Technical: Work and funding will be transferred to BA 4 PE in FY05-09.

Schedule: Not applicable.

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Exhibit R-2a

BA: 03 PROGRAM ELEMENT: 0603757N PROGRAM ELEMENT TITLE: Joint Warfare Experiments
PROJECT NUMBER: R3010 PROJECT TITLE: JFCOM- Joint Simulation System

COST: (Dollars in Thousands)

Project & Title	FY 2003 Actual	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate
R3010 JFCOM- Joint Simulation System	0	9,573	*26	21	17	21	21

* Work and funding will be transferred to BA 4 PE in FY05-09.

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: The Secretary of Defense Program Decision Memorandum (dated 12 Dec 2003) tasked U.S. Joint Forces Command (USJFCOM) with the responsibility for maintaining Joint Simulations System (JSIMS) software and establishing a Software Support Facility (SSF) at the Joint Warfighting Center, pending the results of an Analysis of Alternatives (AoA). The mission of this program is to create a SSF to support the delivery and maintenance of Block I of the JSIMS. JSIMS Block I delivers to the Joint Warfighting Center the simulation capability to train Joint Force Commanders, their components, and staffs. JSIMS is the next generation modeling and simulation tool that will be the cornerstone for Training Transformation and will be one of the key tools to the success of the Joint National Training Center (JNTC).

B. ACCOMPLISHMENTS/PLANNED PROGRAM:

	FY 2003	FY 2004	FY 2005
Joint Simulation System	0	9,537	0

Efforts include: software configuration management; joint exercise technical support; JSIMS specific training; resource repository maintenance; and software administrative support.

FY 2003 Accomplishments:

Not applicable.

FY 2004 Plans:

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Exhibit R-2a

BA: 03 PROGRAM ELEMENT: 0603757N PROGRAM ELEMENT TITLE: Joint Warfare Experiments
PROJECT NUMBER: R3010 PROJECT TITLE: JFCOM- Joint Simulation System

- The JSIMS SSF will perform software configuration management (CM) which ensures users are operating the most current version of software in Joint Exercises. The CM team is responsible for documenting upgrades/fixes to the software and publishing those changes to the user community at large. Real-time technical support to Joint Exercise and other training or testing events will be provided to include 24/7 help desk support during a given event, and insuring the JSIMS software operates as delivered, taking steps to correct real-time problems that arise. Specific training (technical and operational) will be provided to users prior to conducting a JSIMS-driven Joint Exercise. Periodic upgrade training will be provided to JSIMS user sites, and training will be provided for periodic model testing events, as required. The SSF will maintain and control all JSIMS software and documentation in a central location (resource repository) and will serve as an archive for historical documentation. Perfunctory Software administrative support (considered specialized and technical) will be provided to the above functions, to include organic security and engineering expertise.

FY 2005 Plans:

Not applicable.

C. OTHER PROGRAM FUNDING SUMMARY:

RELATED RDT&E:

0603727N Joint Experimentation

D. ACQUISITION STRATEGY:

Not applicable.

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BA: 03 PROGRAM ELEMENT: 0603757N PROGRAM ELEMENT TITLE: Joint Warfare Experiments
PROJECT NUMBER: Various PROJECT TITLE: Congressional Plus-Ups

CONGRESSIONAL PLUS-UPS:

R9340	FY 2003	FY 2004
National Security Modeling, Simulation and Training	0	10,383

The USJFCOM J7 & Joint Warfighting Center partners with USNORTHCOM and the ODU Research Facility/VMASC to develop and demonstrate models of U.S. urban areas, simulations on the employment of weapons of mass destruction in these urban areas, simulations on the capabilities of the Department's civil support capabilities, interactive capacity for live responses for local, state and national civil authorities and the means to ultimately become part of a larger full-spectrum national security modeling and simulation architecture. A demonstrated, portable, simulation-driven, training, planning, and decision support capability to support events which focus on middle and upper tier federal, state, regional and local emergency management and disaster response control centers, replicates the full interagency and intergovernmental environment, and models scenarios reflective of the major urban contingencies these organizations must face. This project has two phases:

- Phase 1: Demonstration of portable modeling and simulation capabilities, which could support the inclusion of state, regional and local government command and control and interoperability training in DoD, Joint and Federal Agency events. This capability will be demonstrated in the context of the Determined Promise Homeland Security and Defense Exercise Event, scheduled for August 2004. This project shall also serve as a prototype for maintaining a sustained capability to achieve the long-range vision.

- Phase 2: Complete the development of the selected simulation engine so that it is able to support all plausible training and analysis scenarios and to address additional simulation capabilities required by the Department of Defense to support NORTHCOM and Interagency training at the federal, state, regional and local level.

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